

## AVD100 Series

100 - 120 Watts

### Data Sheet

**Total Power:** 100 - 120 Watts  
**Input Voltage:** 36 - 75 V  
**# of Outputs:** Single

### SPECIAL FEATURES

- 2:1 wide input range
- Optimised for high density, small space applications
- Low ripple and noise
- Fixed switching frequency
- High efficiency
- High capacitive load capability
- Pre-bias start-up capability
- Basic insulation system
- Through-hole or SMT termination
- Openframe structure with Baseplate option
- Output over current protection

### SAFETY

- UL, cUL: UL/CSA62368
- TUV/CE: IEC/EN62368



### Electrical Specifications

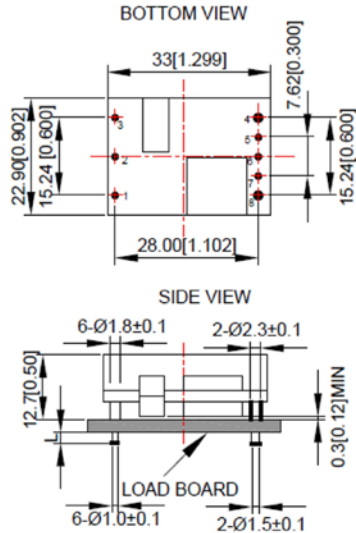
Input	
Input range	36 - 75 Vdc
Efficiency	5 V: 92.5% @ full load; 93.5% @ half load
Output	
Voltage tolerance	±1.5%
Line regulation	0.2%
Load regulation	Single output: 0.5%
Noise/ripple	120 mV
Overvoltage protection Overtemperature protection	Auto-restart
Switching frequency	250 KHz
Temperature co-efficient	±0.02 /°C
Isolation	
I/O isolation	1500 Vdc min.

### Specifications

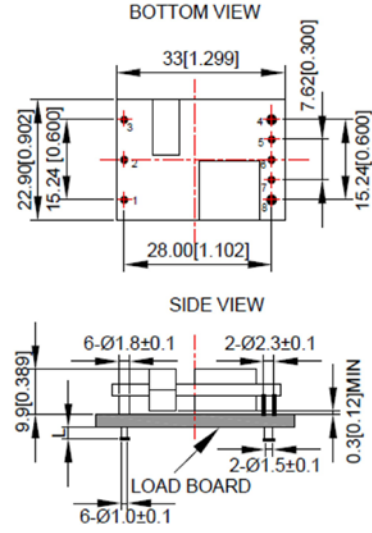
Operating ambient temperature range	-40 °C to +85 °C
Storage temperature	-55 °C to +125 °C
Humidity	5% to 95% (non-condensing)
MTBF	2 Million hours
RoHS compliant	

Mechanical Drawings

Baseplate option



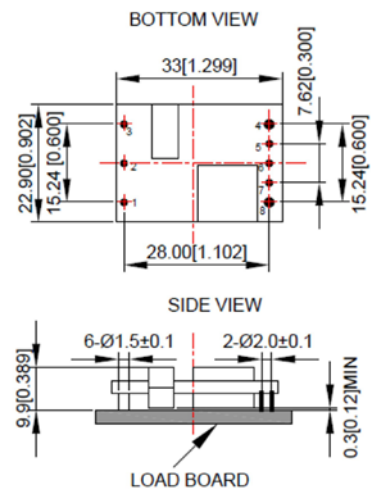
Open frame option



UNIT: mm[inch]      BOTTOM VIEW: pin on upside

TOLERANCE: X.Xmm±0.5mm[X.XX in.±0.02in.]  
X.XXmm±0.25mm[X.XXX in.±0.01in.]

SMT option



Notes:

1. All specifications are subject to change without notice. Mechanical drawings are for reference only.
2. Warranty: 2 years
3. Label and logo appearance may vary from what is shown on mechanical drawings.

Pin Length Option

Device code suffix	L
-4	4.6 mm ± 0.25 mm
-6	3.8 mm ± 0.25 mm
-8	2.8 mm ± 0.25 mm
None	5.8 mm ± 0.25 mm

Pin Assignments

Pin #	Function
1	+V in
2	Remote On/Off
3	-V in
4	-V out
5	- Sense
6	Trim
7	+Sense
8	+V out

## Ordering Information

Model number	Input voltage	Output voltage	Power
AVD100-48S05-6L	36 - 75 Vin	5 V @ 20 A	100 W
AVD100-48S05B-6L	36 - 75 Vin	5 V @ 20 A	100 W
AVD100-48S05TL	36 - 75 Vin	5 V @ 20 A	100 W
AVD120-48S12-6L	36 - 75 Vin	12 V @ 10 A	120 W
AVD120-48S12B-6L	36 - 75 Vin	12 V @ 10 A	120 W
AVD120-48S12TL	36 - 75 Vin	12 V @ 10 A	120 W

Notes:

Standard version is negative enable

"-6" = 3.8 mm pin length

"B" = Baseplate version

"T" = Surface mount, reel tape package

"L" = RoHS 10 compliance

"P" = Positive enable

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